IMMUNOLOGY

CONTENTS

Vol 62 No. 1 September 1987

N. R. LING, D. ELLIOTT & J. LOWE: Modulation of the murine immune response to human IgG by complexing with monoclonal antibodies. I. Antibody responses to determinants on the constant region of light chains and gamma chains 1

N. R. LING, D. ELLIOTT & J. LOWE: Modulation of the murine immune response to human IgG by complexing with monoclonal antibodies. II. Antibody responses to idiotopes of the human IgG paraprotein and of the mouse monoclonal antibodies 7

S. KAWAGUCHI: Phospholipid epitopes for mouse antibodies against bromelain-treated mouse erythrocytes 11

S. MAUDSLEY & M. B. PEPYS: Immunochemical cross-reactions between pentraxins of different species 17

L. GILEAD, N. LIVNI, R. ELIAKIM, M. LIGUMSKY, A. FICH, E. OKON, D. RACHMILEWITZ & E. RAZIN: Human gastric mucosal mast cells are chondroitin sulphate E-containing mast cells 23

C. C. MCMENAMIN, E. A. GAULT & D. M. HAIG: The effect of dexamethasone on growth and differentiation of bone-marrow derived mucosal mast cells *in vitro* 29

E. TELEMO, I. JAKOBSSON, B. R. WESTRÖM & H. FOLKESSON: Maternal dietary antigens and the immune response in the offspring of the guinea-pig 35

V. VĚTVIČKA, H. TLASKALOVÁ-HOGENOVÁ, L. FORNŮSEK, B. ŘÍHOVÁ & V. HOLÁŇ: Membrane and functional characterization of lymphoid and macrophage populations of Peyer's patches from adult and aged mice 39

L. F. FRIES, S. A. SIWIK, A. MALBRAN & M. M. FRANK: Phagocytosis of target particles bearing C3b–IgG covalent complexes by human monocytes and polymorphonuclear leucocytes 45

L. BAUD, C. H. KOO & D. J. GOETZL: Specificity and cellular distribution of human polymorphonuclear leucocyte receptors for leukotriene C_4 53

T. PHAM HUU, S. CHOLLET-MARTIN, A. PERIANIN, C. MARQUETTY, P. SOURBIER, C. BABIN-CHEVAYE, D. OLIVE, M.-A. GOUGEROT-POCIDALO, P. DEBRE & J. HAKIM: Comparison of blocking effects of monoclonal antibodies anti-MO1-α and anti-FA1-α on human neutrophil functions 61

S. DENHAM, R. BARFOOT & E. JACKSON: A receptor for monomeric IgG2b on rat macrophages 69

S. L. MACDOUGALL, G. A. SCHWARTING, D. PARKINSON & A. K. SULLIVAN: Increased fucosylation of glycolipids in a human leukaemia cell line (K562-Clone I) with decreased sensitivity to NK-mediated lysis 75

M. SALMON, P. A. BACON & S. P. YOUNG: Natural killer cells in peripheral blood and the mixed lymphocyte response: interaction with the transferrin receptor 81

G. LOS, R. A. DE WEGER, R. M. P. MOBERTS, H. VAN LOVEREN, R. J. SAKKERS & W. DEN OTTER: The absence of delayed-type hypersensitivity reactivity in a syngeneic murine tumour system 89

J. F. MADDOX, C. R. MACKAY & M. R. BRANDON: Ontogeny of ovine lymphocytes. I. An immunohistological study on the development of T lymphocytes in the sheep embryo and fetal thymus 97

J. F. MADDOX, C. R. MACKAY & M. R. BRANDON: Ontogeny of ovine lymphocytes. II. An immunohistological study on the development of T lymphocytes in the sheep fetal spleen 107

J. F. MADDOX, C. R. MACKAY & M. R. BRANDON: Ontogeny of ovine lymphocytes. III. An immunohistological study on the development of T lymphocytes in sheep fetal lymph nodes 113

D. WATKINS & N. COHEN: Mitogen-activated *Xenopus laevis* lymphocytes produce a T-cell growth factor 119

D. R. TABOR, D. P. KIEL & R. F. JACOBS: Cyclophosphamide-sensitive activity of suppressor T cells during treponemal infection 127

M. J. CANNON, E. J. STOTT, G. TAYLOR & B. A. ASKONAS: Clearance of persistent respiratory syncytial virus infections in immunodeficient mice following transfer of primed T cells 133

S. LIGHTMAN, S. COBBOLD, H. WALDMANN & B. A. ASKONAS: Do L3T4$^+$ T cells act as effector cells in protection against influenza virus infection 139

Brief communications

F. SASSI, F. HUGO, M. MUHLY, A. KHALED & S. BHAKDI: A reason for the cytolytic inefficiency of murine serum 145

I. C. KOWANKO & A. FERRANTE: Stimulation of neutrophil respiratory burst and lysosomal enzyme release by human interferon-gamma 149

N. MATTHEWS, M. L. NEALE, S. K. JACKSON & J. M. STARK: Tumour cell killing by tumour necrosis factor: inhibition by anaerobic conditions, free-radical scavengers and inhibitors of arachidonate metabolism 153

Book reviews 157

Books received for review 159

Vol. 62 No. 2 October 1987

Review paper

J. M. AUSTYN: Lymphoid dendritic cells 161

P. H. Nibbering, P. C. J. Leijh & R. Van Furth: Quantitative immunocytochemical characterization of mononuclear phagocytes. II. Monocytes and tissue macrophages 171

D. L. Emery, N. D. Machugh & J. A. Ellis: The properties and functional activity of non-lymphoid cells from bovine afferent (peripheral) lymph 177

J. L. Ebersole, M. A. Taubman, D. J. Smith & D. E. Frey: Carrier-specific recognition for induction of secretory IgA anamnestic antibody responses 185

J. V. Peppard & P. C. Montgomery: Studies on the origin and composition of IgA in rat tears 193

J. Sawada, T. Terao & M. A. Leon: Role of IL-2 and antigen in the later stages of the primary antibody response 199

I. Casal, E. Viñuela & L. Enjuanes: Synthesis of african swine fever (ASF) virus-specific antibodies *in vitro* in a porcine leucocyte system 207

T. Yamashita, T. Watanabe & F. Sendo: Studies on the immunological disturbance in murine *Schistosomiasis japonica* from the viewpoint of the interleukin cascade reaction 215

F. J. Enriquez, R. H. Jacobson, R. H. Cypess & D. L. Wassom: Adoptive transfer of resistance to *Nematospiroides dubius* infections of mice and an assay to measure the *in vitro* proliferation of lymphocytes reactive with *N. dubius* antigen 223

G. A. W. Rook, J. Taverne, C. Leveton & J. Steele: The role of gamma-interferon, vitamin D_3 metabolites and tumour necrosis factor in the pathogenesis of tuberculosis 229

E. Kita, M. Emoto, N. Katsui, K. Nishi, K. Yasui, K. Yasui & S. Kashiba: Analysis of immunity to infection with *Salmonella typhimurium* in outbred mice. II. Isolation and immunogenicity of the protective non-O antigenic component from ribosomal vaccine 235

T. Koga, M. Mitsuyama, T. Handa, T. Yayama, K. Muramori & K. Nomoto: Induction by killed *Listeria monocytogenes* of effector T cells mediating delayed-type hypersensitivity but not protection in mice 241

A. Orren, P. C. Potter, R. C. Cooper & E. du Toit: Deficiency of the sixth component of complement and susceptibility to *Neisseria meningitidis* infections: studies in 10 families and five isolated cases 249

B. R. Champion, K. Page, D. C. Rayner, R. Quartey-Papafio, P. G. Byfield & G. Henderson: Recognition of thyroglobulin autoantigenic epitopes by murine T and B cells 255

P. L. E. M. van Lent, W. B. van den Berg, J. Schalkwijk, L. B. A. van de Putte & L. van den Bersselaar: Allergic arthritis induced by cationic antigens: relationship of chronicity with antigen retention and T-cell reactivity 265

S. H. M. Jeurissen, A. M. Duifvestijn, Y. Sontag & G. Kraal: Lymphocyte migration into the lamina propria of the gut is mediated by specialized HEV-like blood vessels 273

J. T. Golay & D. H. Crawford: Pathways of human B-lymphocyte activation blocked by B-cell specific monoclonal antibodies 279

N. R. Sabbele, A. Van Oudenaren, H. Hooijkaas & R. Benner: The effect of corticosteroids upon murine B cells *in vivo* and *in vitro* as determined in the LPS-culture system 285

C. A. Ottaway: Selective effects of vasoactive intestinal peptide on the mitogenic response of murine T cells 291

A. Molendijk, R. J. H. L. M. van Gurp, I. G. Donselaar & R. Benner: Suppression of delayed-type hypersensitivity to histocompatibility antigens by ultraviolet radiation 299

F. A. Spring, P. A. Judson, G. L. Daniels, S. F. Parsons, G. Mallinson & D. J. Anstee: A human cell-surface glycoprotein that carries Cromer-related blood group antigens on erythrocytes and is also expressed on leucocytes and platelets 307

J. C. Arnall & J. D. Horton: *In vivo* studies on allotolerance perimetamorphically induced in control and thymectomized *Xenopus* 315

N. Belluardo, G. Mudó, S. Cella, A. Santoni, G. Forni & M. Bindoni: Hypothalamic control of certain aspects of natural immunity in the mouse 321

Brief communication

A. Ritson, & J. N. Bulmer: Endometrial granulocytes in human decidua react with a natural-killer (NK) cell marker, NKH1 329

Book reviews 333

Vol 62 No. 3 November 1987

C. H. Ginsburg, E. Wisniewski & M. I. Greene: The role of an anti-idiotype antibody in regulating hapten (azobenzenearsonate)-specific granuloma formation 335

G. Dighiero, A. Lim, P. Poncet, A. Kaushik, X.-R. Ge & J.-C. Mazié: Age-related natural antibody specificities among hybridoma clones originating from NZB spleen 341

P. G. Holt & M. A. Schon-Hegrad: Localization of T cells, macrophages and dendritic cells in rat respiratory tract tissue: implications for immune function studies 349

W. K. Seow, Y. H. Thong & A. Ferrante: Macrophage–neutrophil interactions: contrasting effects of the monokines interleukin-1 and tumour necrosis factor (cachectin) on human neutrophil adherence 357

K. D. Bremm, W. König, M. Thelestam & J. E. Alouf: Modulation of granulocyte functions by bacterial exotoxin and endotoxins 363

D. M. Magee, E. J. Wing, N. M. Ampel, A. Waheed & R. K. Shadduck: Macrophage colony-stimulating factor enhances the expression of Fc receptors on murine peritoneal macrophages 373

K. A. Odling, G. M. Halliday & H. K. Muller: Enhanced survival of skin grafts depleted of Langerhans' cells by treatment with dimethylbenzanthracene 379

F. Dallegri, G. Frumento, A. Ballestrero, R. Goretti, A. Torresin & F. Patrone: Antibody-dependent tumour cytolysis by human neutrophils: effect of synthetic serine esterase inhibitors and substrates 387

Y. Hirayama, K. Inaba, S. Komatsubara, K. Yoshida, J. Kawai, K. Naito & S. Muramatsu: Accessory cell

functions of dendritic cells and macrophages in the thymic T-cell response to Con A 393

E. WIENER, A. ATWAL, K. M. THOMPSON, M. D. MELAMED, B. GORICK & N. C. HUGHES-JONES: Differences between the activities of human monoclonal IgG1 and IgG3 subclasses of anti-D(Rh) antibody in their ability to mediate red cell-binding to macrophages. 401

T. A. GAITHER, I. VARGAS, S. INADA & M. M. FRANK: The complement fragment C3d facilitates phagocytosis by monocytes. 405

K. IIDA, K. MITOMO, T. FUJITA & N. TAMURA: Characterization of three monoclonal antibodies against C3 with selective specificities 413

T. HOSOKAWA, M. HOSONO, K. HIGUCHI, A. AOIKE, K. KAWAI & T. TAKEDA: Immune responses in newly developed short-lived SAM mice. I. Age-associated early decline in immune activities of cultured spleen cells 419

T. HOSOKAWA, M. HOSONO, K. HANADA, A. AOIKE, K. KAWAI & T. TAKEDA: Immune responses in newly developed short-lived SAM mice. II. Selectively impaired T-helper cell activity in *in vitro* antibody response 425

V. BARNABA, G. RUBERTI, M. LEVRERO & F. BALSANO: *In vitro* induction of HBsAg-specific CD8 CD11 human suppressor T cells 431

R. TURCOTTE: A suppressor B lymphocyte inhibiting IL-2 consumption in spleen cell cultures from *Mycobacterium bovis* BCG-infected mice 439

J. A. LITTLE & G. L. ASHERSON: F_1 mice make two species of antigen-specific, parental haplotype-restricted, T-helper factor whose restrictions correspond to the phenotype of the I-A determinants that they bear 445

R. E. CALLARD & S. L. TIERNAN: Specific antibody responses by high- and low-density human peripheral blood B cells: T-helper cells and T-cell replacing factor (TRF) act on different B-cell subpopulations 451

H. IWAI, R. YASUMIZU, K. SUGIURA, M. INABA, T. KUMAZAWA, R. A. GOODS & S. IKEHARA: Successful pancreatic allografts in combination with bone marrow transplantation in mice 457

E. HOUSSAINT, E. DIEZ & J. R. L. PINK: Ontogeny and tissue distribution of the chicken Bu-la antigen 463

A. M. CARROLL & M. I. GREENE: Anti-I-A antibody modulation of lymphocyte traffic in hapten-stimulated inbred mice 471

J. A. APPLETON & D. D. MCGREGOR: Characterization of the immune mediator of rapid expulsion of *Trichinella spiralis* in suckling rats 477

W. SOLBACH, M. LOHOFF, H. STRECK, P. ROHWER & M. RÖLLINGHOFF: Kinetics of cell-mediated immunity developing during the course of *Leishmania major* infection in 'healer' and 'non-healer' mice: progressive impairment of response to and generation of interleukin-2 485

N. RIZVI, U. C. CHATURVEDI, R. NAGAR & A. MATHUR: Macrophage functions during denge virus infection: antigenic stimulation of B cells 493

D. A. HIGGINS, K. F. SHORTRIDGE & P. L. K. NG: Bile immunoglobulin of the duck (*Anas platyrhynchos*). II. Antibody response in influenza A virus infections 499

J. F. GEORGE, R. D. KARP, B. L. RELLAHAN & J. L. LESSARD: Alternation of the protein composition in the haemolymph of American cockroaches immunized with soluble proteins 505

Vol 62 No. 4 December 1987

Invited article

E. A. STURA, J. H. AREVALO, A. FEINSTEIN, R. B. HEAP, M. J. TAUSSIG & I. A. WILSON: Analysis of an anti-progesterone antibody: variable crystal morphology of the Fab′ and steroid–Fab′ complexes 511

A. K. SCHRÖDER, F. A. NARDELLA, M. MANNIK, P. J. H. JOHANSSON & P. CHRISTENSEN: Identification of the site on IgG Fc for interaction with streptococci of groups A, C and G 523

J. M. WILLIAMS, P. D. GOREVIC, R. J. LOONEY & G. N. ABRAHAM: Isoelectric focusing characterization of IgM-V_{Kib} immunoglobulin light chains and their association with anti-IgG autoantibodies in essential mixed cryoglobulinaemia, Sjögren's syndrome and rheumatoid arthritis 529

S. SULEYMAN, D. C. DUMONDE & J. P. BANGA: Idiotypic expression of antibodies to retinal S-antigen in experimental autoimmune uveoretinitis 537

R. BOMFORD, E. ABDULLA, C. HUGHES-JENKINS, D. SIMPKIN & J. SCHMIDT: Antibodies to interleukin-1 raised with synthetic peptides: identification of external sites and analysis of interleukin-1 synthesis in stimulated human peripheral blood monocytes 543

P. J. VAN DER HEIJDEN, W. STOK & A. T. J. BIANCHI: Contribution of immunoglobulin-secreting cells in the murine small intestine to the total 'background' immunoglobulin production 551

G. M. TAYLOR, H. MORTEN, T. CARR, C. HARRISON, J. RIDWAY & P. MORRIS JONES: Expression of human CD antigens, including CD1 and CD25, by human × mouse interlineage leukaemia hybrids 557

N. K. PURI, M. D. GORRELL & M. R. BRANDON: Sheep MHC class II molecules. I. Immunochemical characterization 567

N. K. PURI & M. R. BRANDON: Sheep MHC class II molecules. II. Identification and characterization of four distinct subsets of sheep MHC class II molecules 575

P. J. ROBERTS & A. W. SEGAL: The digestion of bacterial macromolecules by phagocytic cells: the effect of mepacrine and ethanol 581

I. N. BROWN & A. A. GLYNN: The *Ity/Lsh/Bcg* gene significantly affects mouse resistance to *Mycobacterium lepraemurium* 587

S. VENTO, S.-H. CHEN, G. GIULIANI-PICCARI, C. J. O'BRIEN, P. R. DAL MONTE, A. L. W. F. EDDLESTON, C. R. HOWARD & R. WILLIAMS: Cellular immunity to nucleocapsid and pre-S determinants in asymptomatic carriers of hepatitis B virus 593

S. DE LA BARRERA, L. FAINBOIM, S. LUGO, G. R. PICCHIO, G. R. MUCHINIK & M. M. E. DE BRACCO: Anti-class II antibodies in AIDS patients and AIDS-risk groups 599

O. Bakouche, B. Mougin & D. Gerlier: *In vitro* cellular immune response to measles viral glycoproteins: role of the antigen vector 605

H. J. Andress & L. Brent: Activation of lymphocytes isolated from the gastric mucosa of the mouse 613

S. Gibson, A. Mackeller, G. F. J. Newlands & H. R. P. Miller: Phenotypic expression of mast cell granule proteinases. Distribution of mast cell proteinases I and II in the rat digestive system 621

G. F. J. Newlands, S. Gibson, D. P. Knox, R. Grencis, D. Wakelin & H. R. P. Miller: Characterization and mast cell origin of a chymotrypsin-like proteinase isolated from intestines of mice infected with *Trichinella spiralis* 629

R. E. O'Hehir, D. B. Young, A. B. Kay & J. R. Lamb: Cloned human T lymphocytes reactive with *Dermatophagoides farinae* (house dust mite): a comparison of T- and B-cell antigen recognition 635

D. D. Joel & A. D. Chanana: Distribution of lung-associated lymphocytes from the caudal mediastinal lymph node: effect of antigen 641

G. Strang & A. B. Rickinson: *In vitro* expansion of Epstein–Barr virus-specific HLA-restricted cytotoxic T cells direct from the blood of infectious mononucleosis patients 647

H. Nakamura, T. Koike, K. Hiruma, T. Sato, H. Tomioka & S. Yoshida: Identification of lymphoid cell lines bearing receptors for somatostatin 655

D. Baker, D. Parker, D. G. Healy & J. L. Turk: Induction of sensitization and tolerance in contact sensitivity with haptenated epidermal cells in the guinea-pig 659

E. N. Dotsika & C. J. Sanderson: Interleukin-3 production as a sensitive measure of T-lymphocyte activation in the mouse 665

D. Watkins, S. C. Parsons & N. Cohen: A factor with interleukin-1-like activity is produced by peritoneal cells from the frog, *Xenopus laevis* 669

Brief communication

K. P. M. Van Kessel, J. A. G. Van Strijp, H. J. Van Kats-Renaud, L. A. M. Miltenburg, M. E. Van Der Tol, A. C. Fluit & J. Verhoef: Further evidence against a role for toxic oxygen products as lytic agents in NK cell-mediated cytotoxicity 675

Author and subject indexes for Volume 62 679